

Impression Solutions

Imprint™ 4

VPS Impression Material

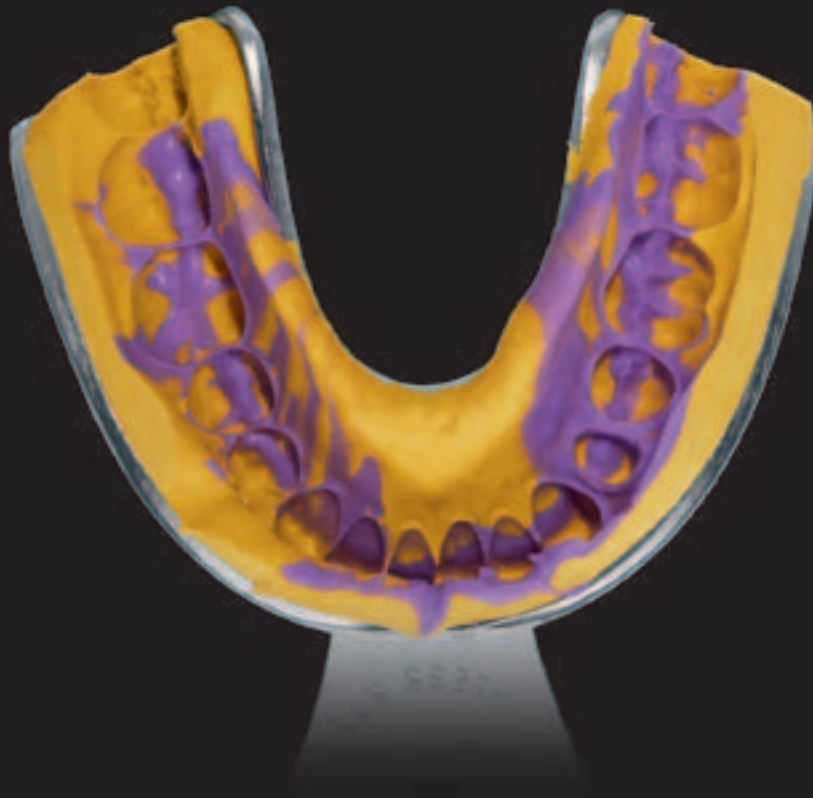
* Imprint™ 4 features the shortest intra-oral setting time on the market.



The **fastest*** A-silicone
thanks to **active
self-warming**

3M ESPE

Imprint™ 4



Why will you be so enthusiastic about Imprint™ 4? The reason is simple: top precision, time-saving processes and comfortable handling can help you to increase the efficiency of your dental practice. As one of the world leaders in the field of impression solutions, 3M™ ESPE™ gives you the right product for the job: Imprint 4. See for yourself!

A-silicone

Convincing time savings and precision

Imprint™ 4: the innovative A-silicone precision impression material.

With Imprint™ 4 VPS Impression Material, you get the newest product for extraordinarily precise impression results. Thanks to active self-warming, this innovative A-silicone features an extremely short intra-oral setting time and thus ensures noticeable time savings in the impression process – for you and for your patients.

Imprint 4 VPS material offers you:

Active self-warming

For accelerated setting

Shortest intra-oral setting time

For real time savings

Sufficient working time

For a stress-free procedure

Super-hydrophilicity

For excellent flow and finest detail reproduction

Fresh material colours

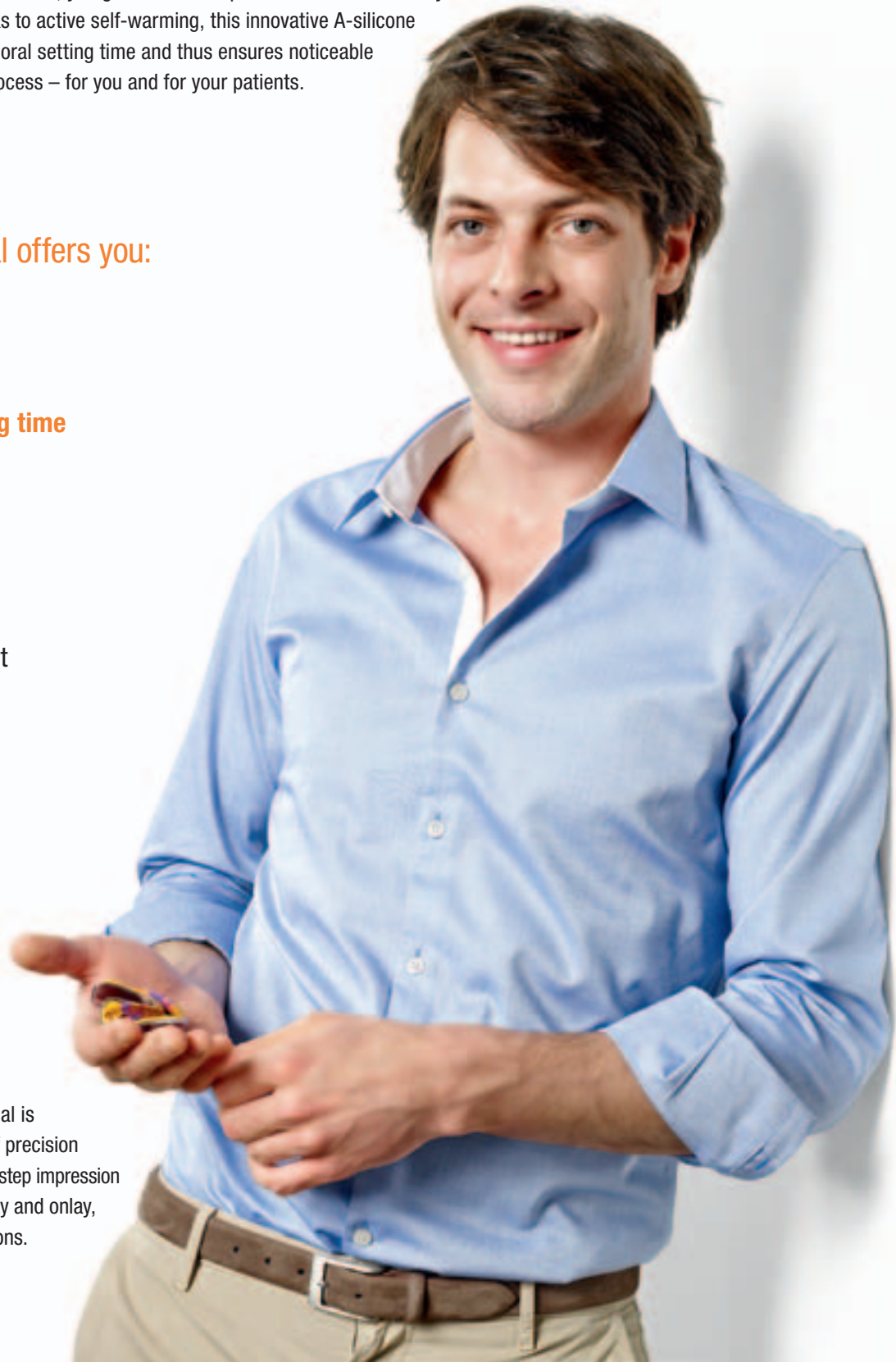
For enhanced readability

Pleasant minty taste

For more patient comfort

Indications:

Imprint™ 4 VPS Impression Material is especially designed for all kinds of precision impressions using the 1-step and 2-step impression techniques: crown and bridge, inlay and onlay, implant, and orthodontic impressions.



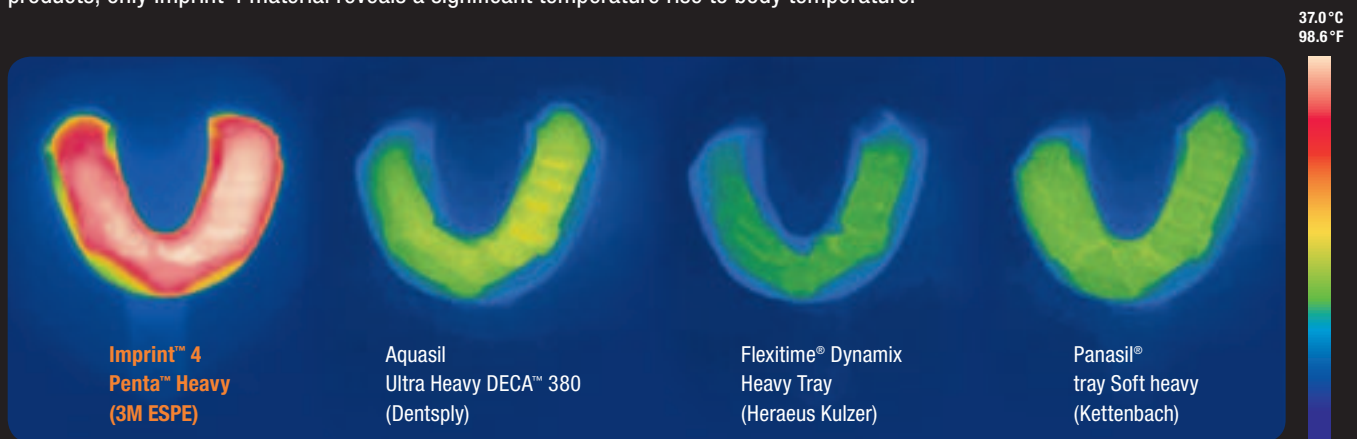
The fastest route to stress-free impressions



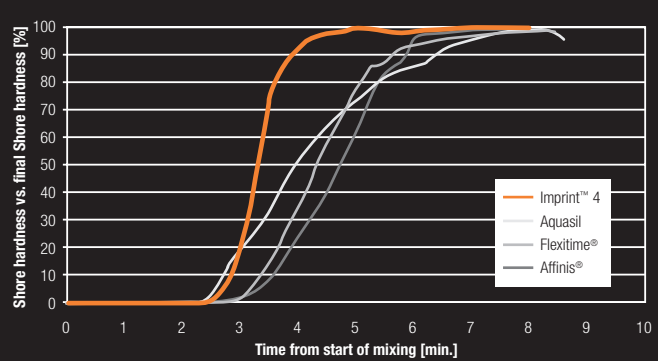
The impression material with active self-warming.

Imprint™ 4 VPS Material features the shortest intra-oral setting time of all precision impression materials on the market. This is achieved by active self-warming, which 3M ESPE developed exclusively for Imprint 4. A unique chemical reaction causes the material to actively and quickly warm up to body temperature after the working time, substantially accelerating the intra-oral setting. The usual working time is not affected so the impression process will be stress-free for you. Thus, you gain in time and efficiency – and your patients gain in comfort.

These images, taken with a thermographic camera, demonstrate Imprint 4's unique active self-warming: among competing products, only Imprint 4 material reveals a significant temperature rise to body temperature.



Infrared images of Imprint™ 4 Penta™ Heavy VPS Material (3M ESPE), Aquasil Ultra Heavy DECA™ 380 (Dentsply), Flexitime® Dynamix Heavy Tray (Heraeus Kulzer) and Panasil® tray Soft heavy (Kettenbach). Only Imprint™ 4 Material shows a significant temperature increase. All images were taken at room temperature (23°C/73.4°F). Images show the materials at the time of their maximum temperature. Source: 3M ESPE internal tests



Progression of setting reaction characterized by increase in Shore hardness measured in different quick setting heavy bodies. Intra-oral setting times are shorter than those measured at room temperature (23°C/73.4°F). Materials tested: Imprint™ 4 Super Quick Heavy (3M ESPE), Aquasil Ultra Heavy Fast Set (Dentsply), Flexitime® Heavy Body (Heraeus Kulzer), Affinis® heavy body fast (Coltene). Source: J.C. Farr, H. Hoffmann, A. Maurer, P. Osswald, E. Wanek, Shore Hardness Increase of Tray Materials during Setting, CED IADR 2012, #674

Imprint 4 material's active self-warming leads to a steep increase in Shore hardness which can be equated with accelerated setting. The graph demonstrates that Imprint 4 shows the fastest setting compared to competing VPS materials, making the short intra-oral setting time possible.

Extremely hydrophilic – for enhanced detail

Super-hydrophilicity for highly precise impressions.

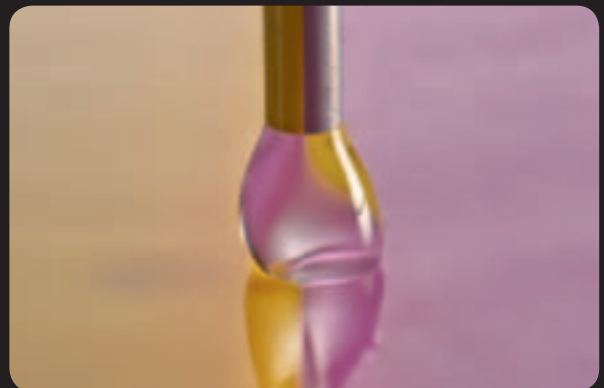
A new and unique feature of Imprint™ 4 VPS Impression Material is its extremely hydrophilic behaviour – even in the unset state. With its optimal flow, the A-silicone captures even the finest details.

A simple test demonstrates this feature: If you put a water droplet on the interface of two unset impression materials, it will flow to the material with the higher hydrophilicity – i.e. with the higher affinity for water or another aqueous solution.

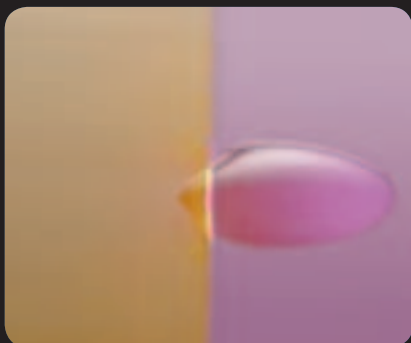
In a direct comparison with competing A-silicone impression materials, the water droplet always flows to the more hydrophilic Imprint 4 material (shown right).



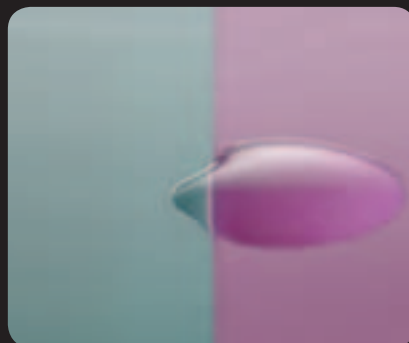
A water droplet is applied ...



... to the interface of two unset light body VPS impression materials (40 seconds after start of mixing).



Aquasil Ultra XLV (Dentsply) vs.
Imprint™ 4 Light (3M ESPE)



Flexitime® Light Flow (Heraeus Kulzer) vs.
Imprint™ 4 Light (3M ESPE)



Panasil® initial contact Light (Kettenbach) vs.
Imprint™ 4 Light (3M ESPE)

Source: 3M ESPE internal data. Data available on request at 3M ESPE. Contact see back side.

Imprint™ 4 – versatile and unique

Imprint™ 4 VPS Impression Materials are available in perfectly coordinated contrasting colours, viscosities and different working/setting times. Whatever your requirements may be and whichever techniques you favour – the Imprint 4 family provides an optimal solution. Just choose your preferred material combination. All tray materials – including putty – are available for automatic mixing in the Pentamix™ System from 3M ESPE.

Once the tray is seated in the mouth, the material starts to set. Even if the working time is shorter than usual, the tray can be removed after the stated constant intra-oral setting time.

	Maximum working time (23 °C) 	Maximum intra-oral syringing time (37 °C) 	Constant intra-oral setting time (37 °C) 
PENTA™ TRAY MATERIALS			
Imprint™ 4 Penta™ Putty	1:30	–	2:30
Imprint™ 4 Penta™ Heavy	2:00	–	2:00
Imprint™ 4 Penta™ Super Quick Heavy	1:15	–	1:15
GARANT™ WASH MATERIALS			
Imprint™ 4 Super Quick Ultra-Light	1:15	or 0:35	1:15
Imprint™ 4 Light	2:00	or 1:00	2:00
Imprint™ 4 Super Quick Light	1:15	or 0:35	1:15
Imprint™ 4 Regular	2:00	or 1:00	2:00
Imprint™ 4 Super Quick Regular	1:15	or 0:35	1:15

Imprint 4 materials are available in two setting regimes: The **“Super Quick” setting materials** are the ideal solution for impressions for 1 to 2 units. The **“Regular” setting versions** offer longer working times and thus are perfectly suited for larger units.



Recommended material combinations

Tray materials	Recommended wash materials
1-STEP TECHNIQUE	
Imprint™ 4 Penta™ Heavy	Imprint™ 4 Light
	Imprint™ 4 Regular
Imprint™ 4 Penta™ Super Quick Heavy	Imprint™ 4 Super Quick Light
	Imprint™ 4 Super Quick Regular
Imprint™ 4 Penta™ Putty	Imprint™ 4 Regular
2-STEP TECHNIQUE	
Imprint™ 4 Penta™ Putty	Imprint™ 4 Super Quick Ultra-Light
	Imprint™ 4 Light



Ordering Information

Item No.	Product Information
Trial/Intro Kits for Pentamix™ 3	
71499	Imprint™ 4 Penta™ Putty Trial Kit 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Imprint™ 4 Super Quick Ultra-Light cartridge – 50 ml, 10 Penta™ Mixing Tips red, 5 Garant™ Mixing Tips yellow, 5 Garant™ Intra-Oral Tips yellow
71497	Imprint™ 4 Penta™ Heavy Trial Kit 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Imprint™ 4 Light cartridge – 50 ml, 10 Penta™ Mixing Tips red, 5 Garant™ Mixing Tips yellow, 5 Garant™ Intra-Oral Tips yellow
71498	Imprint™ 4 Penta™ Super Quick Heavy Trial Kit 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Imprint™ 4 Super Quick Light cartridge – 50 ml, 10 Penta™ Mixing Tips red, 5 Garant™ Mixing Tips yellow, 5 Garant™ Intra-Oral Tips yellow
71496	Imprint™ 4 Penta™ Putty Intro Kit 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Imprint™ 4 Super Quick Ultra-Light cartridge – 50 ml, 1 Imprint™ 4 Regular cartridge – 50 ml, 1 Imprint™ 4 Penta™ Putty cartridge, 10 Penta™ Mixing Tips red, 5 3M™ ESPE™ Intra-Oral Syringes green, 5 Garant™ Mixing Tips yellow, 5 Garant™ Intra-Oral Tips yellow, 1 VPS tray adhesive
71494	Imprint™ 4 Penta™ Heavy Intro Kit 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Imprint™ 4 Light cartridge – 50 ml, 1 Imprint™ 4 Regular cartridge – 50 ml, 1 Imprint™ 4 Penta™ Heavy cartridge, 10 Penta™ Mixing Tips red, 5 3M™ ESPE™ Intra-Oral Syringes green, 5 Garant™ Mixing Tips yellow, 5 Garant™ Intra-Oral Tips yellow, 1 VPS tray adhesive
71495	Imprint™ 4 Penta™ Super Quick Heavy Intro Kit 1 base paste – 300 ml, 1 catalyst – 60 ml, 1 Imprint™ 4 Super Quick Light cartridge – 50 ml, 1 Imprint™ 4 Super Quick Regular cartridge – 50 ml, 1 Imprint™ 4 Penta™ Super Quick Heavy cartridge, 10 Penta™ Mixing Tips red, 5 3M™ ESPE™ Intra-Oral Syringes green, 5 Garant™ Mixing Tips yellow, 5 Garant™ Intra-Oral Tips yellow, 1 VPS tray adhesive
Refills – Tray Materials	
71486	Imprint™ 4 Penta™ Putty Refill 2 base pastes – 300 ml each, 2 catalysts – 60 ml each
71484	Imprint™ 4 Penta™ Heavy Refill 2 base pastes – 300 ml each, 2 catalysts – 60 ml each
71485	Imprint™ 4 Penta™ Super Quick Heavy Refill 2 base pastes – 300 ml each, 2 catalysts – 60 ml each
Refills – Wash Materials	
71491	Imprint™ 4 Super Quick Ultra-Light Refill 4 Imprint™ 4 Super Quick Ultra-Light cartridges – 50 ml each, 5 Garant™ Mixing Tips yellow, 5 3M™ ESPE™ Intra-Oral Syringes green
71488	Imprint™ 4 Light Refill 4 Imprint™ 4 Light cartridges – 50 ml each, 5 Garant™ Mixing Tips yellow, 5 3M™ ESPE™ Intra-Oral Syringes green
71490	Imprint™ 4 Super Quick Light Refill 4 Imprint™ 4 Super Quick Light cartridges – 50 ml each, 5 Garant™ Mixing Tips yellow, 5 3M™ ESPE™ Intra-Oral Syringes green
71487	Imprint™ 4 Regular Refill 4 Imprint™ 4 Regular cartridges – 50 ml each, 5 Garant™ Mixing Tips yellow, 5 3M™ ESPE™ Intra-Oral Syringes green
71489	Imprint™ 4 Super Quick Regular Refill 4 Imprint™ 4 Super Quick Regular cartridges – 50 ml each, 5 Garant™ Mixing Tips yellow, 5 3M™ ESPE™ Intra-Oral Syringes green

Item No.	Product Information
Value Packs	
71504	Imprint™ 4 Penta™ Putty Value Pack 6 base pastes – 300 ml each, 6 catalysts – 60 ml each
71500	Imprint™ 4 Penta™ Heavy Value Pack 6 base pastes – 300 ml each, 6 catalysts – 60 ml each
71503	Imprint™ 4 Penta™ Super Quick Heavy Value Pack 6 base pastes – 300 ml each, 6 catalysts – 60 ml each
Cartridges for Pentamix™ 3	
77786	Imprint™ 4 Penta™ Putty
77784	Imprint™ 4 Penta™ Heavy
77785	Imprint™ 4 Penta™ Super Quick Heavy
Cartridges for Pentamix™ 2	
77783	Imprint™ 4 Penta™ Putty
77781	Imprint™ 4 Penta™ Heavy
77782	Imprint™ 4 Penta™ Super Quick Heavy
3M™ ESPE™ Intra-Oral Syringe	
71505	3M™ ESPE™ Intra-Oral Syringe Green Refill 20 3M™ ESPE™ Intra-Oral Syringes green
3M™ ESPE™ Astringent Retraction Paste	
56944	Refill Pack – 25 capsules
56945	Value Pack – 100 capsules
Pentamix™ 3 Automatic Mixing Unit & Accessories	
77871	1 Pentamix™ 3 – 230 V Western Europe
77872	1 Pentamix™ 3 – 230 V CH
77873	1 Pentamix™ 3 – 230 V GB
71512	50 Penta™ Mixing Tips red
77580	1 Garant™ Dispenser 1:1/2:1
71452	50 Garant™ Mixing Tips yellow
71462	50 Garant™ Intra-oral Tips yellow



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